

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

**IEEE Xplore**
Full TextWelcome
United States Patent and Trademark OfficeIEEE Xplore®
1 Million Documents
1 Million Users[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)**Quick Links**

» Search Results

Welcome to IEEE Xplore

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

IEEE Enterprise

- ☐ Access the IEEE Enterprise File Cabinet

Print Format

Your search matched **469** of **1074479** documents.A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance** in **Descending** order.**Refine This Search:**

You may refine your search by editing the current search expression or entering a new one in the text box.

☐ Check to search within this result set**Results Key:****JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard**1 A complex-number multiplier using radix-4 digits***Wei, B.W.Y.; He Du; Honglu Chen;*

Computer Arithmetic, 1995., Proceedings of the 12th Symposium on , 19-21 July 1995

Pages:84 - 90

[\[Abstract\]](#) [\[PDF Full-Text \(380 KB\)\]](#) **IEEE CNF****2 Adaptation of the Mactaggart and Jack complex multiplication algorithm for floating-point operators***Cosentino, R.J.; Vaccaro, J.J.;*

Computers, IEEE Transactions on , Volume: 41 , Issue: 10 , Oct. 1992

Pages:1324 - 1326

[\[Abstract\]](#) [\[PDF Full-Text \(264 KB\)\]](#) **IEEE JNL****3 Efficient complex matrix multiplication***Fam, A.T.;*

Computers, IEEE Transactions on , Volume: 37 , Issue: 7 , July 1988

Pages:877 - 879

[\[Abstract\]](#) [\[PDF Full-Text \(264 KB\)\]](#) **IEEE JNL****4 Fast algorithms for complex matrix multiplication using surrogates***Connolly, F.T.; Yagle, A.E.;*

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 37 , Issue: 6 , June 1989

Pages:938 - 939

[\[Abstract\]](#) [\[PDF Full-Text \(172 KB\)\]](#) **IEEE JNL****5 A finite group of complex integers and its application to differentially coherent detection of QAM signals***Egri, R.G.; Horrigan, F.A.;*

Information Theory, IEEE Transactions on , Volume: 40 , Issue: 1 , Jan. 1994
Pages:216 - 219

[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) IEEE JNL

6 A new implementation of complex number multiplier using RB representations

Guoping Wang; Tull, M.P.;

Region 5 Conference: Annual Technical and Leadership Workshop, 2004 , 2 April 2004

Pages:77 - 79

[\[Abstract\]](#) [\[PDF Full-Text \(1415 KB\)\]](#) IEEE CNF

7 Multilayer cellular algorithm for complex number multiplication

Markova, V.P.;

Application Specific Array Processors, 1995. Proceedings., International Conference on , 24-26 July 1995

Pages:290 - 297

[\[Abstract\]](#) [\[PDF Full-Text \(420 KB\)\]](#) IEEE CNF

8 The one over eight squared algorithm: a new way for computing convolutions and complex multiplications

Skavantzios, A.;

Circuits and Systems, 1990., IEEE International Symposium on , 1-3 May 1990

Pages:61 - 64 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(260 KB\)\]](#) IEEE CNF

9 Complex digital signal processing using quadratic residue number systems

Krishnan, R.; Jullien, G.; Miller, W.;

Acoustics, Speech, and Signal Processing [see also IEEE Transactions on Signal Processing], IEEE Transactions on , Volume: 34 , Issue: 1 , Feb 1986

Pages:166 - 177

[\[Abstract\]](#) [\[PDF Full-Text \(1000 KB\)\]](#) IEEE JNL

10 Implementation of 'multiply-add' FFT algorithms for complex and real data sequences

Lu, C.;

Circuits and Systems, 1991., IEEE International Symposium on , 11-14 June 1991

Pages:480 - 483 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(264 KB\)\]](#) IEEE CNF

11 Complex number multipliers

Pekmestzi, K.Z.;

Computers and Digital Techniques, IEE Proceedings E [see also Computers and Digital Techniques, IEE Proceedings-], Volume: 136 , Issue: 1 , Jan. 1989

Pages:70 - 75

[\[Abstract\]](#) [\[PDF Full-Text \(364 KB\)\]](#) IEE JNL

12 The modified quadratic residue number system (MQRNS) for complex high-speed signal processing

Krishnan, R.; Jullien, G.; Miller, W.;
Circuits and Systems, IEEE Transactions on , Volume: 33 , Issue: 3 , Mar 1986
Pages:325 - 327

[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) [IEEE JNL](#)

13 Polynomial residue complex signal processing

Skavantzios, A.; Stouraitis, T.;

Circuits and Systems II: Analog and Digital Signal Processing, IEEE Transactions on
[see also Circuits and Systems II: Express Briefs, IEEE Transactions on] , Volume:
40 , Issue: 5 , May 1993
Pages:342 - 344

[\[Abstract\]](#) [\[PDF Full-Text \(228 KB\)\]](#) [IEEE JNL](#)

14 Phase and amplitude phase restoration in synthetic aperture radar imaging

Soumekh, M.; Choi, J.-H.;

Image Processing, IEEE Transactions on , Volume: 1 , Issue: 2 , April 1992
Pages:229 - 242

[\[Abstract\]](#) [\[PDF Full-Text \(1124 KB\)\]](#) [IEEE JNL](#)

15 A VLSI signal processor with complex arithmetic capability

Barazesh, B.; Michalina, J.-C.; Picco, A.;

Circuits and Systems, IEEE Transactions on , Volume: 35 , Issue: 5 , May 1988
Pages:495 - 505

[\[Abstract\]](#) [\[PDF Full-Text \(856 KB\)\]](#) [IEEE JNL](#)

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [21](#) [22](#) [23](#) [24](#)
[25](#) [26](#) [27](#) [28](#) [29](#) [30](#) [31](#) [32](#) [Next](#)

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC](#)
[Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

L Number	Hits	Search Text	DB	Time stamp
3	501	708/501,495,404,300.ccls. and complex	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/27 10:07
4	5663	((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or (("2" or two) adj (cycle\$1 or clock\$1 or (period\$1)).clm. or (("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and (708/501,495,404,300.ccls. and complex)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/27 10:08
5	3	(708/501,495,404,300.ccls. and complex) and (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or (("2" or two) adj (cycle\$1 or clock\$1 or (period\$1)).clm. or (("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and (708/501,495,404,300.ccls. and complex))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/27 10:08
-	22741	708/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:19
-	780	((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:24
-	103	((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:42
-	14	((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1)) and 708/622.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:57
-	189	708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:58
-	150	(cycle\$1 or clock\$1 or period\$1) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:59
-	42	((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:59

-	28	((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))) not (((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 14:59
-	5661	((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or ((("2" or two) adj (cycle\$1 or clock\$1 or (period\$1)).clm. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/27 10:07
-	9	((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).clm. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:08
-	5	((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).clm. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:06
-	198	((((cycle\$1 or clock\$1 or period\$1)).ti. or ((cycle\$1 or clock\$1 or period\$1)).clm. or ((cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:08
-	191	((((cycle\$1 or clock\$1 or period\$1)).ti. or ((cycle\$1 or clock\$1 or period\$1)).clm. or ((cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img))))))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:08

-	186	<p> ((((cycle\$1 or clock\$1 or period\$1)).ti. or ((cycle\$1 or clock\$1 or period\$1)).clm. or ((cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) not (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or (("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).clm. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) </p>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:09
-	186	<p> ((((cycle\$1 or clock\$1 or period\$1)).ti. or ((cycle\$1 or clock\$1 or period\$1)).clm. or ((cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) not (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or (("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).clm. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) and ("2" or two) </p>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:09

	186	<p>(((((cycle\$1 or clock\$1 or period\$1)).ti. or ((cycle\$1 or clock\$1 or period\$1)).clm. or ((cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) not (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).clm. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) and ("2" or two)) and complex</p>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:09
	15	<p>(((((cycle\$1 or clock\$1 or period\$1)).ti. or ((cycle\$1 or clock\$1 or period\$1)).clm. or ((cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) not (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).clm. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) and ("2" or two)) and complex</p>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:15

-	0	<pre> (((((((cycle\$1 or clock\$1 or period\$1)).ti. or ((cycle\$1 or clock\$1 or period\$1)).clm. or ((cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) not (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or (("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).clm. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) and ("2" or two)) and complex) and 708/490.ccls. </pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:15
-	0	<pre> (((((((cycle\$1 or clock\$1 or period\$1)).ti. or ((cycle\$1 or clock\$1 or period\$1)).clm. or ((cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) not (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or (("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).clm. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) and ("2" or two)) and complex) and 708/200.ccls. </pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 15:15

-	8	<p>(((((cycle\$1 or clock\$1 or period\$1)).ti. or ((cycle\$1 or clock\$1 or period\$1)).clm. or ((cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) not (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ti. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).clm. or ((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)).ab.) and ((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.)) not (((multiplier\$1 or multiplication or multiplying or multiply) and complex and (real or re) and (imaginary or img) and 708/\$.ccls.) and ((two or "2") adj (cycle\$1 or period\$1 or clock\$1))) and 708/622.ccls.) or (((("2" or two) adj (cycle\$1 or clock\$1 or period\$1)) and (708/523,622,620.ccls. and (complex or ((real or re) and (imaginary or img)))))) and ("2" or two)) and complex) and 708/490-522.ccls.</p>	<p>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</p>	<p>2004/08/30 15:16</p>
-	7	5896543.URPN.	USPAT	2004/08/30 15:23
-	24	<p>("4164787" "4439839" "4574345" "4641238" "4754394" "4800524" "4809217" "4908748" "5010476" "5056000" "5099417" "5151979" "5187795" "5274789" "5280532" "5317572" "5325489" "5361370" "5390304" "5404522" "5423010" "5438666" "5471607" "5608885").PN.</p>	<p>USPAT USPAT</p>	<p>2004/08/30 15:23 2004/08/30 15:23</p>